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AMENDMENTS TO THE CLAIMS

1. (Currently amended) A transmission system including comprising first and second rotatable shafts, and means for transferring drive from one of the shafts to the other shaft including comprising first and second gear wheels each rotatably mounted on the first shaft and having drive formations formed thereon, a selector assembly for selectively transmitting torque between the first shaft and the first gear wheel and between the first shaft and the second gear wheel, wherein the selector assembly includes—comprises—an actuator assembly and first and second sets of engagement members that are moveable into and out of engagement with the first and second gear wheels independently of each other, said selector assembly being arranged such that when a driving force is transmitted, one of the first and second sets of engagement members drivingly engages the engaged gear wheel, and the other set of engagement members is then in an unloaded condition, wherein the actuator assembly is arranged to move the unloaded set of engagement members into driving engagement with the unengaged gear wheel to effect a gear change.

- 2. (Currently amended) A-The transmission system according to claim 1, wherein selector assembly is arranged such that when a braking force is transmitted the first set of engagement members drivingly engages the engaged gear wheel, and the second set of engagement members is in an unloaded condition, and when a driving force is transmitted the second set of engagement members drivingly engages the engaged gear wheel, and the second set of engagement members is then in an unloaded condition.
- 3. (Currently amended) A-The transmission system according to claim 1-or 2, wherein the actuator assembly is arranged to bias the loaded set of engagement members towards the unengaged gear wheel without disengaging the loaded set of engagement members from the engaged gear wheel.
- 4. (Currently amended) A-<u>The</u> transmission system according to any one of the preceding elaimsclaim 1, wherein the first and second sets of engagement members are arranged to rotate, in use, with the first shaft.

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5. (Currently amended) A-The transmission system according to any one of the preceding elaimsclaim 1, wherein the first shaft is an input shaft and the second shaft is an output shaft and drive is transferred from the input shaft to the output shaft.

- 6. (Currently amended) A-The transmission system according to any one of the preceding elaimsclaim 1, wherein the selector assembly is arranged such that when the first and second sets of engagement members engage one of the first and second gear wheels the backlash when moving between acceleration and deceleration is less than or equal to four degrees.
- 7. (Currently amended) A-<u>The</u> transmission system according to any one of the preceding elaimsclaim 1, wherein the drive formations on the first and second gear wheels comprise <u>a</u> first and second groups of dogs respectively.
- 8. (Currently amended) A—<u>The</u> transmission system according to claim 7, wherein the first and second groups of dogs each comprise between two and eight dogs, evenly distributed on the first and second gears respectively.
- 9. (Currently amended) A-The transmission system according to claim 8, wherein the first and second groups of dogs each comprise between two and four dogs, and preferably three dogs.
- 10. (Currently amended) A-<u>The</u> transmission system according to any one of the preceding elaimsclaim 1, wherein the first and second sets of engagement members comprise between two and eight members.
- 11. (Currently amended) A-The transmission system according to claim 10, wherein the first and second sets of engagement members comprise between two and four members, and preferably three members.
- 12. (Currently amended) A-The transmission system according to any one of the preceding elaimsclaim 1, wherein the first shaft includes comprises keyways arranged such that the first and second sets of engagement members can slide axially along the keyways and to radially restrain the positions of the sets of engagement members.

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13. (Currently amended) A-<u>The</u> transmission system according to claim 12, wherein the-<u>a</u> cross-section of the keyways is one of T-shaped, slotted, and dovetailed.

- 14. (Currently amended) A-The transmission system according to any one of the preceding elaimsclaim 1, wherein the actuator assembly includes—comprises at least one resiliently deformable means arranged to move at least one of the first and second sets of engagement members into engagement with the first and second gear wheels when the engagement members are in unloaded conditions.
- 15. (Currently amended) A-The transmission system according to claim 14, wherein the at least one resiliently deformable means is arranged to bias at least one of the first and second sets of engagement members towards the first or second gear wheel when the engagement members are drivingly engaged with a gear wheel.
- 16. (Currently amended) A-The transmission system according to elaims 14 or 15claim 14, wherein the actuator assembly includes comprises first and second resiliently deformable means connected to the first and second sets of engagement members respectively such that the first resiliently deformable means acts on the first set engagement members and the second resiliently deformable means acts on the second set engagement members.
- 17. (Currently amended) A-The transmission system according to elaims 14 or 15claim 14, wherein the at least one resiliently deformable means is connected to the first and second sets of engagement members such that the resiliently deformable means acts on both the first and second sets of engagement members.
- 18. (Currently amended) A-The transmission system according to elaim 12 to 17claim 12, wherein the members of the first and / or second sets of engagement members can perform limited axial movement relative to each other in the keyways.
- 19. (Currently amended) A—<u>The_transmission system according to any one of claims 12 to 18</u>claim 14, wherein the resiliently deformable means is a spring, and preferably a disc spring.

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20. (Currently amended) A-The transmission system according to any one of claim to 19claim 25, wherein the disc spring includes-comprises a plurality of arms, each arm having a first part that extends circumferentially around a portion of the disc spring and a second part that extends substantially radially inwards.

21. (Currently amended) A-The transmission system according to any one of claims 13 to 20claim 14, wherein the actuator assembly includes comprises a fork that is arranged to engage the at least one resiliently deformable means to move the at least one radially deformable means axially along the first shaft.

22. (Currently amended) A-The transmission system according to any one of the preceding elaimsclaim 1, wherein the drive formations are arranged such that they do not extend beyond the outside diameter of the gear wheels.

23. (New) The transmission system according to claim 8, wherein the first and second groups of dogs each comprise three dogs.

24. (New) The transmission system according to claim 10, wherein the first and second sets of engagement members comprise three members.

25. (New) The transmission system according to claim 19, wherein the resiliently deformable means is a disc spring.